



# TACTICAL URBANIST'S GUIDE TO MATERIALS & DESIGN - DRAFT -

WORKSHOP SUMMARY • FAYETTEVILLE, AR • NOVEMBER 17, 2016



# BACKGROUND

The Street Plans Collaborative selected Fayetteville, AR as one of six “Beta City” partners associated with the Tactical Urbanist’s Guide to Materials and Design project. Undertaken with funding from the Knight Foundation, this project has two components:

- The research for and production of a new print and digital resource that will provide high-quality design and materials guidance for citizen-led demonstration, and city-led pilot and interim-design projects; and
- A workshop series to accompany the Guide, with the goal of expanding participating departments familiarity and comfort with planning and executing collaborative demonstration, pilot, and interim-design projects.

As part of the workshop component of the project, Street Plans was able to offer workshop assistance to Fayetteville, AR to jumpstart a Tactical Urbanism project. The workshop focus was developed collaboratively by various city departments and led by two workshop coordinators:

- Lee Porter (City of Fayetteville); and
- Dane Eifling (City of Fayetteville)

Based on local priorities, the City of Fayetteville identified connecting the Razorback Greenway with the Square via West Spring Street as a priority project.

The Workshop was held on Thursday, November 17th, and was attended by the City of Fayetteville Mayor and staff across various departments, University of Arkansas staff, local consultants, and advocacy and business community leaders.



## Part 1: Site Visit

*The first part of the Workshop consisted of an evening site visit to document challenges and opportunities along West Spring Street.*

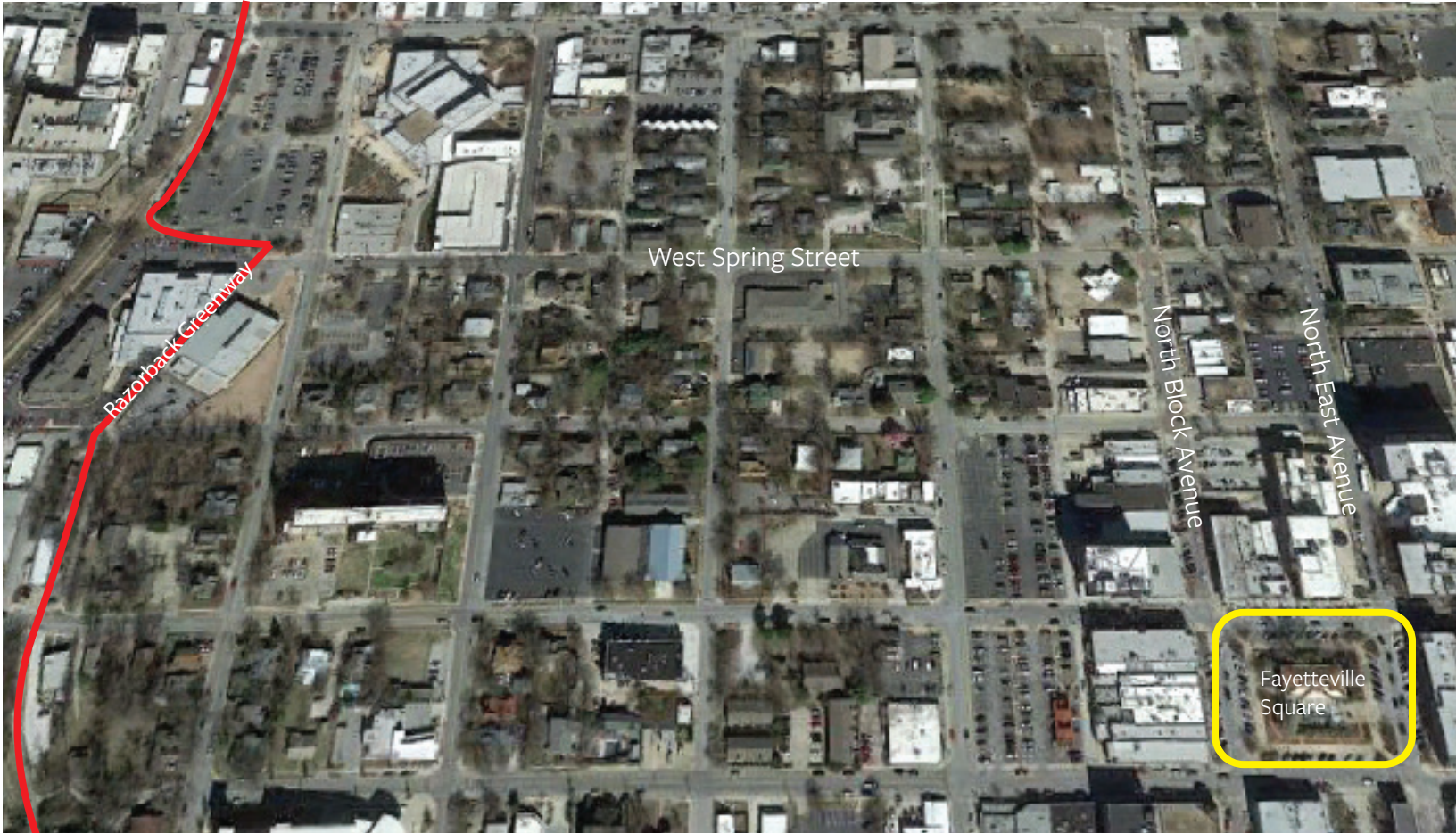


## Part 2: Pilot Design Workshop

*The second part of the Workshop featured an introductory presentation, followed by the implementation of a one-hour demonstration project, and concluded with interactive exercises to develop a pilot project for West Spring Street.*

# WORKSHOP GOALS

- Convene City department and community partners
- Introduce the Tactical Urbanism approach to project delivery
- Work together to design and deliver a pilot project for West Spring Street / North Block Avenue / North East Avenue in the spring/summer 2017
- Identify critical barriers, department leads, design concepts, and materials to advance the project - Quickly!



## SITE VISIT OBSERVATIONS

### Existing Conditions Summary

The three streets in question - West Spring Street, North Block Street, and North East Avenue - vary in built character and configuration. However, all three streets feature a constrained cross-section, meaning there will be tradeoffs involved with building more robust cycling and walking infrastructure - primarily the potential reduction of on-street parking.

North Block Avenue and North East Avenue are commercial in nature while West Spring Street features a range of institutional, commercial, and residential properties. A number of properties along West Spring have been or will soon be redeveloped with more density/intensity of use, which will bring more cycling/walking activity to the corridor. Traffic volumes and speeds are relatively low along all three streets. However, sharing the narrow travel lane with motorists is uncomfortable for many cyclists and the intersection design/traffic control scheme is not consistent along West Spring Street, leaving people walking, bicycling, and driving unclear on who has the right-of-way at any given intersection. Moreover, several intersections lack crosswalks and ADA compliant curb ramps, which leaves an otherwise walkable street less accessible.

Finally, there is a relatively significant slope between West Spring Street and the Square, making uphill travel on bicycle more challenging for less skilled bicyclists. Given the above, there is a clear need to better connect some of downtown Fayetteville's best activity assets: The Razorback Greenway, the Square, and everything in between.





## Project Challenges

- West Spring Street, Block Avenue, and North East Avenue have a constrained right-of-way and will require a reconfiguration if more robust walking/ cycling facilities are to be added.
- Inconsistent intersection control / design configurations create confusion for people walking, cycling, and driving, especially at North Church Avenue and North Locust Avenue.
- Bicycle connectivity / wayfinding is challenging for all but the most experienced of cyclists.
- Several intersections do not feature crosswalks or basic curb ramp / ADA compliant design features.
- Topography, especially from West Spring Street to the Square presents a challenge for novice cyclists.
- As new businesses and institutions bring people to the neighborhood, especially in the evenings and weekends, on-street parking can be challenging.
- There is no funding currently allocated for developing a pilot project along West Spring Street.

## Project Opportunities

- The route links two of Fayetteville's key activity assets: The Razorback Greenway (outlined in red on the previous page) and the Fayetteville Square (outlined in yellow); More than 1,000 people use the trail each day and the Square is programmed regularly with events and serves as the city's geographic center.
- West Spring Street and North East Avenue are currently designated as bikeway routes, marked with shared use lane markings, and could be enhanced further through street redesign.
- West Spring Street runs parallel to West Dickson Street, providing a less congested connection between the Square and the Razorback Greenway. This street can be designed to function like a "Neighborhood Greenway," which prioritizes the movement of people walking and cycling through additional traffic calming and facility design.
- Two bike shops (The Highroller Cyclery and The Handlebar) exist along this short route, as do a number of other popular commercial destinations, especially along North Block Street, between West Spring and the Square.
- Ongoing redevelopment will bring more residents and businesses to West Spring Street, heightening the need/demand for better cycling and pedestrian connections.
- Developing this first pilot project is the best way for Fayetteville to test out the Tactical Urbanism project delivery process and, if successful, customize it further moving forward so it is optimized for future projects.



# PILOT PROJECT DESIGN

## Design Process

Following the morning introductory classroom session and hands-on demonstration project (pictured above) workshop attendees reconvened in and split into three teams to develop high-level design proposals for a pilot project. Each team - comprised of various city department staff, local business owners, advocates, and a Street Plans facilitator - was provided with a materials packet, excerpted from the forthcoming Tactical Urbanist's Guide to Materials and Design. Three considerations framed the teams' design brief:

- Connect the Razorback Greenway with the Fayetteville Square with infrastructure suitable for people of all ages and abilities;
- Design project elements with materials that address community concerns about safety, mobility, and aesthetics; and
- Develop a suitable pilot project using low-cost materials that last approximately 1 month - 1 year.

After sketching design ideas, the teams were then asked to map out a rough list of materials and costs, name potential project delivery partners, and to create an implementation timeline. At the end of the 1.5 hour design session, each team shared their concepts with the larger group. Three different proposals emerged from the work are summarized below.

## Design Concepts

**Team 1** proposed a one month pilot project that includes an eastbound “uphill” bike lane along West Spring Street. The bike lane would be protected from traffic by flexible delineator posts, with shared use lane markings remaining in place along the westbound travel lane. This proposal requires removing approximately 24 on-street parking spaces along the south side of the street. In addition to the bike lane, a number of “missing” high-visibility “zebra” crosswalks would be added along and across West Spring Street and two temporary mini-roundabouts would be implemented at the Church Avenue and School Avenue intersections. An intersection mural would also be painted at the West Spring/North West intersection, curb extensions would be added to North Locust Avenue, and tree planters would be located within the two roundabouts and at key locations along West Spring. Using the materials cut sheets, team 1 calculated the materials cost of the one-month pilot to be approximately **\$10,000**.

**Team 2** proposed a year-long pilot project consisting of a eastbound protected bikeway along the south side of West Spring Street and a bi-directional protected bikeway along the west side of North East Avenue. Each bikeway would be protected by low-lying “armadillos” (see Materials Guide). Again, the removal of on-street parking would be required along the southside of West Spring Street, as well as the east side of North East Avenue. To enhance walkability and slow traffic, a series of curb extensions painted on the asphalt and mountable curb roundabouts were proposed along West Spring Street. The materials cost is approximately **\$20,000**.





## Proposed Pilot Project Concept Diagram

### LEGEND

- █ Razorback Greenway
- █ Protected Bike Lane
- █ Green “Super Sharrows”
- ⊞ New Crosswalks
- Intersection Mural
- Roundabout
- Curb Extensions

**Team 3** proposed a protected bikeway along the southside of West Spring Street as well as upgrading the existing shared use lane markings on West Spring (westbound), Block, and North with high-visibility, green “super sharrows.” In addition, the Team 3 proposed low-cost painted curb extensions at key intersections, new crosswalks, and even a bike corral/parklet in front of The Highroller Cyclery, who could help maintain the public space amenity. The proposed frequency of the green super sharrows and the addition of design elements like a parklet/bike corral made this proposal the costliest. Using the materials cut sheets, Team 3 estimated the project materials to cost at approximately **\$38,000.**

While no consensus was achieved within such a short design session, each pilot project proposal included project elements that should be included within a month or yearlong pilot project. The above diagram represents a hybrid project proposal of sorts, combining various elements from each of the three concepts. It should not be considered a “plan,” but rather a jumping off point for internal stakeholder conversation that is refined as the City moves forward into the active design phase of the project (See proposed project delivery timeline on the following page). The materials for the above design is estimated to cost approximately **\$TBD (will calculate if above is acceptable or calculate with revised scheme).** The final section of this Summary includes a stakeholder responsibility chart, a draft project timeline, potential community partners, a list of corresponding materials, and programming recommendations to increase community awareness and education about Neighborhood Greenway and protected bike lane facilities.

# PROJECT PLANNING

## Lead Department Roles and Responsibilities

Task Area	Lead Department	Support
Project Design / Stakeholder Engagement	Planning / Sustainability	Engineering, Fire, Transportation, Parking, Recycling & Trash, Bicycle Coalition of the Ozarks, Block Street and Dixon Street Merchants, Walton Family Foundation, University of Arkansas
Physical Changes to Roadway	Engineering	Transportation, Fire, Parking, Planning, Sustainability, Recycling & Trash
Develop design/materials details and project delivery schedule (flexposts, barriers, etc.)	Engineering	Transportation, Sustainability
Materials Procurement	Engineering	Sustainability / Transportation
Maintenance	???	Engineering / Transportation
Evaluation	Transportation / Sustainability	Bicycle Coalition of the Ozarks
Programming	Bicycle Coalition of the Ozarks	Sustainability / Farmers Market

## Proposed Pilot Project Timeline

Time Frame	Milestone/s	Lead Agency
December 2016	<ul style="list-style-type: none"> <li>Finalize pilot project concept and delivery schedule</li> <li>Council Resolution to instigate project planning</li> </ul>	Engineering / Transportation Planning
January 2017	<ul style="list-style-type: none"> <li>Convene “Tier 1” partners involved with design, planning, and engineering pilot project</li> <li>Develop detailed draft design drawing</li> <li>Convene “Tier 2” community and department stakeholders, schedule public engagement with including adjacent residents, Merchants Associations, etc.</li> </ul>	Engineering with support from Transportation, Sustainability, Planning, Bicycle Coalition of the Ozarks
February 2017	<ul style="list-style-type: none"> <li>Refine and finalize pilot project design</li> <li>Select final materials</li> <li>Create schedule for staging and procurement</li> <li>Continue stakeholder engagement (if needed)</li> </ul>	Engineering / Planning
March 2017	<ul style="list-style-type: none"> <li>Procure materials (signs, paint, barrier elements etc.)</li> </ul>	Engineering ???
April 2017	<ul style="list-style-type: none"> <li>Installation of pilot project before Farmers Market launch</li> <li>Evaluation and ongoing engagement for full duration of pilot (1 month minimum, 12 months preferred)</li> </ul>	Engineering (installation ???), Sustainability, Bicycle Coalition of the Ozarks

## Potential Community Partners

Partner	Potential Role	Notes
Bicycle Coalition of the Ozarks	<ul style="list-style-type: none"> <li>• Planning</li> <li>• Outreach / Engagement / Programming support</li> <li>• Evaluation support</li> </ul>	
Block Street Merchants Association	<ul style="list-style-type: none"> <li>• Program promotion</li> <li>• Business outreach / engagement</li> </ul>	Coordinate programming rides / education with events, like the Block Street Block Party
Dickson Street Merchants Association	<ul style="list-style-type: none"> <li>• Program promotion</li> <li>• Business outreach / engagement</li> </ul>	
Walton Arts Center	<ul style="list-style-type: none"> <li>• Neighborhood engagement</li> </ul>	
University of Arkansas	<ul style="list-style-type: none"> <li>• Planning support / student engagement and education</li> </ul>	
The Highroller Cyclery	<ul style="list-style-type: none"> <li>• Encouragement and public space stewardship (parklet / bike corral)</li> </ul>	Offered preliminary support in the workshop for enhancing public space in front of the shop (curb extensions, parklet etc.)
Walton Family Foundation	<ul style="list-style-type: none"> <li>• Possible project funding support for project planning and/or education/outreach etc.</li> </ul>	
Farmers Market	<ul style="list-style-type: none"> <li>• Programming</li> </ul>	

## Street Design Materials

Material	Function	Lead Department
Striping paint	Crosswalk, bike lanes w/ buffer striping, crosswalks, and stop bars	Engineering Department to purchase or use existing supply
Acrylic Asphalt Paint	Super Sharrows (green), curb extensions (tan or similar), intersection mural	Engineering Department to purchase
Signs	Update street signage per striping and signal changes, wayfinding signs optional	Engineering(?) to purchase or obtain from sign shop / existing inventory
Trees/Planters	Barrier element, greening, and beautification for roundabouts etc.	Sustainability to purchase planters, soil Plants may be donated by local nursery or urban forestry organization
Armadillos	Bike lane barrier element	Engineering(?) to purchase
Stencils	Bikeway pavement markings	Engineering to use existing stencils

## Programming Areas

Material	Function	Partners
Farmers Market Outreach and Community Rides	Engagement / education	<ul style="list-style-type: none"> <li>• Farmers Market, Merchants Association, Bike Shops, Bicycle Coalition of the Ozarks</li> </ul>
Monthly community rides	Engagement, encouragement, education	<ul style="list-style-type: none"> <li>• Bike Shops, Bicycle Coalition of the Ozarks</li> </ul>



# APPENDIX

# PARTNERSHIP WORKSHEET

FOCUS AREA		POTENTIAL PARTNER	OVERVIEW OF ROLES	CHALLENGES/ QUESTIONS
Example: <ul style="list-style-type: none"><li>Note the specific focus area of the partnership, for ex: painting a mural as a surface treatment, watering plants, programming, public outreach, etc.</li></ul>	Example: <ul style="list-style-type: none"><li>List your idea/s for partners who may be able to assist. Try to include specific names and contact information if known.</li></ul>	Example: <ul style="list-style-type: none"><li>Note primary roles of agencies involved</li><li>Note primary roles for partner/s</li></ul>	Example: <ul style="list-style-type: none"><li>Note potential challenges or road blocks. For example: design review, event permits, insurance/liability.</li></ul>	



# TIMELINE WORKSHEET

TASK / PROJECT PHASE		TIME REQUIRED	RESPONSIBILITIES & ROLES	CHALLENGES/ QUESTIONS
Example: <ul style="list-style-type: none"><li>List key tasks in order, such as: finalize design; begin public outreach, etc.</li></ul>		Example: <ul style="list-style-type: none"><li>Note anticipated time required for the task in question</li></ul>	Example: <ul style="list-style-type: none"><li>Note what agency or partner would lead, and who might support/assist</li></ul>	Example: <ul style="list-style-type: none"><li>Note potential challenges or road blocks.</li></ul>

# MATERIALS/BUDGET WORKSHEET

MATERIAL / DESIGN ELEMENT		PURPOSE	PROCUREMENT & INSTALLATION NOTES (IDEAS, CONCERNS...)		ESTIMATED COST
Example: <ul style="list-style-type: none"><li>● Planter</li></ul>	Example: <ul style="list-style-type: none"><li>● Serves as barrier element to delineate pedestrian space</li><li>● Adds beauty to the project</li></ul>	Example: <ul style="list-style-type: none"><li>● Identify lead procurement agency/organization</li><li>● List potential sources, considering existing procurement relationships, donation/borrowing through partnerships</li><li>● Note any concerns or questions related to installation, maintenance, etc.</li><li>● Consider need for ongoing stewardship, as appropriate</li></ul>	Example: <ul style="list-style-type: none"><li>● \$200/planter x 10 planters = \$2,000</li></ul>		
ROUGH COST ESTIMATE*					

\* Note - you may need multiple worksheets to list all project materials, but only 1 cost estimate calculation is needed per project.